2020-2021

QUALITY CONTROL TEST REPORTS

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Agency: Sri.Byate Gowda S N, Contractor, Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

PROJECT MANAGEMENT CONSULTANTS

CIVIL AIM CONSULTANTS & ENGINEERS

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QC ABSTRACT

Nameof Work: Improvements to Roads and Main and Cross Roads Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:4:8	175.05 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	154.14 Cum	7	7	Concrete Cube Compressive Strength	-
3	M30	117.00 Cum	6	6	Concrete Cube Compressive Strength	-
4	Steel	9.25 Tonne	1	1	Concrete Blocks Compressive Strength	-
5	Slab (100mm)	378.00 Sqm	1	1	Concrete Core Compressive Strength	-
6	Slab (230mm)	117.00 Sqm	1	1	Concrete Core Compressive Strength	-
7	Kerb	753.00 Nos	1	1	Concrete Core Compressive Strength	-

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

Assistant Executive Engineer
Kodigehalli Sub Division

CIVIL CONSULTANTS & ENGINEERS
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BANGALORE

CIVIL AIM CONSULTANTS & ENGINEERS

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An ISO 9001-2015 Certified Company

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 26.11.2020

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Byate Gowda S N,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		October - 2020
DATE OF TESTING		24.11.2020 to 26.11.2020
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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BBMP, Bangalore

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Authorised Signatory

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 26.11.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 26.11.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	136	13.60	22.50	77.5	75-100
1.18	184	18.40	40.90	59.1	55-90
600 Micron	165	16.50	57.40	42.6	35-59
300 Micron	220	22.00	79.40	20.6	8-30
150 Micron	158	15.80	95.20	4.8	0-10

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 26.11.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 26.11.2020

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	12	1.20	1.20	98.8	90-100
1.18	39	3.90	5.10	94.9	70-100
600 Micron	86	8.60	13.70	86.3	40-100
300 Micron	265	26.50	40.20	59.8	5-70
150 Micron	489	48.90	89.10	10.9	0-15

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 26.11.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 26.11.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	184	3.7	3.7	96.3	95-100
10	2465	49.3	53.0	47.0	25-55
4.75	1958	39.2	92.1	7.9	0-10

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 26.11.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 26.11.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	198	1.32	1.32	98.68	95-100
20	8230	54.87	56.19	43.81	30-70
10	3215	21.43	77.62	22.38	10-35
4.75	2856	19.04	96.66	3.34	0-5

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 30.11.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 30.11.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	542	625	1.15	13
2	TMT	10	0.618	559	649	1.16	14.5
3	TMT	12	0.889	568	663	1.17	16.5

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REQUIREMENTS AS PER IS: 1786 - 2008 Table 1, Cl 6.2

NOMINAL MASS AND TOLERANCES OF BARS

S.No	Nominal size (dia) (mm)	Mass per metre (kg/metre)	Tolerance on the nominal mass	
			Batch	Individual sample
1	4	0.099	± 7%	- 8%
2	5	0.154	± 7%	- 8%
3	6	0.222	± 7%	- 8%
4	8	0.395	± 7%	- 8%
5	10	0.617	± 7%	- 8%
6	12	0.888	± 5%	- 6%
7	16	1.58	± 5%	- 6%
8	20	2.47	± 3%	- 4%
9	25	3.85	± 3%	- 4%
10	32	6.31	± 3%	- 4%
11	36	7.99	± 3%	- 4%
12	40	9.86	± 3%	- 4%
13	45	12.49	± 3%	- 4%
14	50	15.42	± 3%	- 4%

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REQUIREMENTS AS PER IS: 1786 - 2008 Table 3, Cl 8.1

MECHANICAL PROPERTIES OF HIGH STRENGTH DEFORMED BARS AND WIRES

High strength deformed bars -	0.20 % proof stress/ yield stress, Minimum (N/mm2)		TS/YS ratio, N/mm^2 TS:Tensile Strength YS:0.20 % proof stress/ yield stress	Elongation percent , Minimum, on gauge length
	Min	Max		
Fe 415	415		≥1.10, but TS not less than 485.0 N/mm^2	14.5
Fe 415D	415		≥1.12, but TS not less than 500.0 N/mm^2	18
Fe 415S	415	540	1.25	20
Fe 500	500		≥1.08, but TS not less than 545.0 N/mm^2	12
Fe 500D	500		≥1.10, but TS not less than 565.0 N/mm^2	16
Fe 500S	500	625	1.25	18
Fe 550	550		≥1.06, but TS not less than 585.0 N/mm^2	10
Fe 550 D	550		≥1.08, but TS not less than 600.0 N/mm^2	14.5
Fe 600	600		≥1.06, but TS not less than 660.0 N/mm^2	10

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 14.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.12.2020	14.12.2020	8.136	338.3	15.04
2	07.12.2020	14.12.2020	8.168	345.4	15.35
3	07.12.2020	14.12.2020	8.144	359.6	15.98

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Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 04.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.12.2020	04.01.2021	8.168	504.6	22.43
2	07.12.2020	04.01.2021	8.175	519.3	23.08
3	07.12.2020	04.01.2021	8.182	525.3	23.35

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.12.2020	14.12.2020	8.164	352.3	15.66
2	07.12.2020	14.12.2020	8.138	339.6	15.09
3	07.12.2020	14.12.2020	8.149	346.5	15.40

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.12.2020	04.01.2021	8.166	508.2	22.59
2	07.12.2020	04.01.2021	8.184	516.3	22.95
3	07.12.2020	04.01.2021	8.152	489.6	21.76

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 17.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.12.2020	17.12.2020	8.140	336.3	14.95
2	10.12.2020	17.12.2020	8.168	346.5	15.40
3	10.12.2020	17.12.2020	8.155	352.8	15.68

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 07.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.12.2020	07.01.2021	8.168	508.2	22.59
2	10.12.2020	07.01.2021	8.135	516.2	22.94
3	10.12.2020	07.01.2021	8.146	500.8	22.26

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.
PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 17.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.12.2020	17.12.2020	8.165	336.3	14.95
2	10.12.2020	17.12.2020	8.138	345.2	15.34
3	10.12.2020	17.12.2020	8.146	358.9	15.95

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Prajwal

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 07.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.12.2020	07.01.2021	8.166	506.2	22.50
2	10.12.2020	07.01.2021	8.154	516.3	22.95
3	10.12.2020	07.01.2021	8.139	488.9	21.73

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 18.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.12.2020	18.12.2020	8.168	339.5	15.09
2	11.12.2020	18.12.2020	8.146	346.5	15.40
3	11.12.2020	18.12.2020	8.152	330.3	14.68

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Prajwal

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 08.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.12.2020	08.01.2021	8.168	508.2	22.59
2	11.12.2020	08.01.2021	8.154	511.3	22.72
3	11.12.2020	08.01.2021	8.146	526.3	23.39

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 21.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.12.2020	21.12.2020	8.148	336.3	14.95
2	14.12.2020	21.12.2020	8.165	345.2	15.34
3	14.12.2020	21.12.2020	8.138	356.2	15.83

Note:

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Assistant Executive Engineer
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BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEE

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 11.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.12.2020	11.01.2021	8.158	482.5	21.44
2	14.12.2020	11.01.2021	8.149	516.3	22.95
3	14.12.2020	11.01.2021	8.165	510.6	22.69

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.12.2020	21.12.2020	8.168	336.3	14.95
2	14.12.2020	21.12.2020	8.154	346.5	15.40
3	14.12.2020	21.12.2020	8.149	352.8	15.68

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 11.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.12.2020	11.01.2021	8.144	508.2	22.59
2	14.12.2020	11.01.2021	8.168	516.3	22.95
3	14.12.2020	11.01.2021	8.152	489.6	21.76

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 25.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2020	25.12.2020	8.144	505.2	22.45
2	18.12.2020	25.12.2020	8.136	489.6	21.76
3	18.12.2020	25.12.2020	8.152	516.3	22.95

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 15.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2020	15.01.2021	8.201	725.3	32.24
2	18.12.2020	15.01.2021	8.189	716.8	31.86
3	18.12.2020	15.01.2021	8.194	708.9	31.51

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Prajwal

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 25.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2020	25.12.2020	8.165	502.2	22.32
2	18.12.2020	25.12.2020	8.138	486.3	21.61
3	18.12.2020	25.12.2020	8.159	519.6	23.09

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 15.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2020	15.01.2021	8.188	715.2	31.79
2	18.12.2020	15.01.2021	8.169	726.6	32.29
3	18.12.2020	15.01.2021	8.152	734.8	32.66

Note:

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 25.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2020	25.12.2020	8.165	515.2	22.90
2	18.12.2020	25.12.2020	8.138	522.3	23.21
3	18.12.2020	25.12.2020	8.174	497.8	22.12

Note:

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Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 15.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2020	15.01.2021	8.155	715.2	31.79
2	18.12.2020	15.01.2021	8.168	729.3	32.41
3	18.12.2020	15.01.2021	8.184	705.3	31.35

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Prajwal

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.
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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 25.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2020	25.12.2020	8.163	515.2	22.90
2	18.12.2020	25.12.2020	8.138	500.9	22.26
3	18.12.2020	25.12.2020	8.146	526.3	23.39

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2020	15.01.2021	8.158	715.2	31.79
2	18.12.2020	15.01.2021	8.179	726.3	32.28
3	18.12.2020	15.01.2021	8.165	734.5	32.64

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2020	25.12.2020	8.154	500.2	22.23
2	18.12.2020	25.12.2020	8.138	516.3	22.95
3	18.12.2020	25.12.2020	8.159	528.9	23.51

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2020	15.01.2021	8.188	715.2	31.79
2	18.12.2020	15.01.2021	8.160	729.6	32.43
3	18.12.2020	15.01.2021	8.145	734.5	32.64

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Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2020	25.12.2020	8.166	526.3	23.39
2	18.12.2020	25.12.2020	8.154	515.2	22.90
3	18.12.2020	25.12.2020	8.148	500.8	22.26

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 15.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2020	15.01.2021	8.188	715.2	31.79
2	18.12.2020	15.01.2021	8.165	726.3	32.28
3	18.12.2020	15.01.2021	8.146	704.6	31.32

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 22.12.2020

KERB STONE (CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Sri. Byate Gowda S N,** Contractor, Bangalore.
Name of Work	:	Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	22.12.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	72.00	0.332	2348.42	1.44	0.940	25.30	12.89	13.92	13.07	16.34
2	50.00	74.00	0.345	2374.42	1.48	0.944	26.40	13.45	14.52	13.71	17.13
3	50.00	76.00	0.359	2405.75	1.52	0.948	27.20	13.85	14.96	14.19	17.73

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21

Date: 21.12.2020

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. Byate Gowda S N,** Contractor, Bangalore.
Name of Work	:	Improvements to Roads and Main and Cross Roads Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	21.12.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.380	2360.15	1.64	0.961	32.10	16.35	17.66	16.97	21.21
2	50.00	84.00	0.393	2382.78	1.68	0.965	33.50	17.06	18.43	17.79	22.24
3	50.00	86.00	0.405	2398.43	1.72	0.970	34.60	17.62	19.03	18.46	23.07

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Assistant Executive Engineer
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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 21.12.2020

PRECAST SLAB 230mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. Byate Gowda S N,** Contractor, Bangalore.
Name of Work	:	Improvements to Roads and Main and Cross Roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	21.12.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	121.00	1.789	2324.07	1.34	0.929	116.20	18.27	19.73	18.33	22.91
2	90.00	123.00	1.868	2387.24	1.37	0.932	112.30	17.65	19.06	17.76	22.20
3	90.00	127.00	1.947	2409.84	1.41	0.936	115.80	18.20	19.66	18.41	23.01

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